

Summary

5 The present invention relates to an optical sensor for
the monitoring of combustion processes in a combustion chamber
wherein the optical sensor at least comprises a lens system
facing the combustion chamber, a waveguide and a sheath
surrounding the lens system and one end of the waveguide
characterized in that the lens system consists of at least one
essentially plano-concave lens and a double concave lens
10 wherein the planar surface of the plano-concave lens is
exposed to the combustion chamber. The invention also relates
to a method for the manufacture of said sensor.

(Fig. 1)